

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE THE APPLICATION OF:

REBECCA E. CAHOON ET. AL.

CASE NO.: BB1165USDIV

APPLICATION NO.: 10/629950

CONFIRMATION NO.:

GROUP ART UNIT: 1645

EXAMINER:

FILED: JULY 29, 2003

FOR: PHYTIC ACID BIOSYNTHETIC ENZYMES

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In compliance with 37 CFR 1.97 and 1.98, Applicants bring to the attention of the U.S. Patent and Trademark Office information listed on the enclosed PTO/SB/08 forms made of record in the parent application.

Benefit of the earlier filing date of U.S. Patent Application No. 09/686,522, filed October 11, 2000, is claimed under 35 U.S.C. 120 for the above-referenced application and only copies of information not previously made of record in the parent are enclosed.

Should any fee be required in connection with the filing of this Information Disclosure Statement, please charge such fee to Deposit Account No. 04-1928 (E. I. du Pont de Nemours and Company).

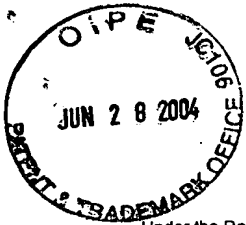
Respectfully submitted,

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Dated: June 23, 2004

Enclosures



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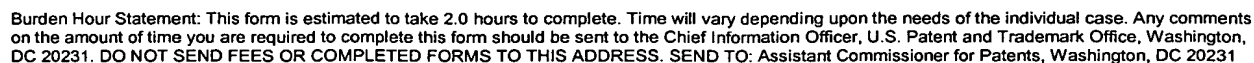
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of

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Complete if Known

Application Number	10/629,950
Filing Date	July 29, 2003
First Named Inventor	Rebecca E. Cahoon et al.
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	BB1165USDIV

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		EMBL SEQUENCE LIBRARY DATA ACCESSION NO: D47093, 03-09-1995, SASAKI, T. ET AL., Rice cDNA from shoot	
		EMBL SEQUENCE LIBRARY DATA ACCESSION NO: C72860, 09-19-97, SASAKI, T. ET AL., Rice cDNA from panicle at flowering stage	
		MONITA P. WILSON ET AL., Biochem. & biophys. Res. Comm., vol. 232:678-681, 1997, Characterization of a cDNA encoding arabidopsis thaliana Inositol 1,3,4-trisphosphate 5/6-kinase	
		JIA LI ET AL., Plant Phys., vol. 114:1103-1111, 1997, Secretion of Active Recombinant Phytase from Soybean Cell-Suspension Cultures	
		FRANCISCO J. QUINTERO ET AL., Plant cell, vol. 8:529-537, 1996, The SAL1 Gene of arabidopsis, encoding an enzyme with 3'(2),5'-Bisphosphate nucleotidase and Inositol Polyphosphate 1-Phosphatase Activities, increases salt tolerance in yeast	
		AKIO MATSUHISA ET AL., Journ. of Bacteriology, vol. 177(1):200-205, 1995, Inositol Monophosphatase Activity from the Escherichia coli suhB gene product	
		GILLASPY, GLENDA, Plant Phys., vol. 114(3) suppl:314, 1997, Transgenic reduction of inositol monophosphatase disrupts vegetative development, XP-002112476	
		GLENDA E. GILLASPY ET AL., Plant cell, vol. 7:2175-2185, 1995, Plant Inositol Monophosphatase is a Lithium-Sensitive enzyme Encoded by a Multigene Family	

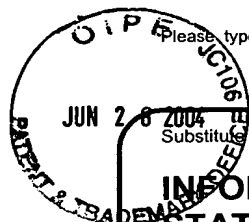
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Application Number	10/629,950
Filing Date	July 29, 2003
First Named Inventor	Rebecca E. Cahoon et al.
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	BB1165USDIV

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		BARBARA F. HARLAND ET AL., J. Assoc. Off. Anal. Chem., vol. 69(4):667-670, 1986, Anion-Exchange Method for Determination of Phytate in Foods: Collaborative Study	
		JEAN-CLAUDE PERNOLLET, Phytochemistry, vol. 17:1473-1480, 1978, Protein Bodies of Seeds: Ultrastructure, Biochemistry, Biosynthesis and Degradation	
		BOYD L. O'DELL ET AL., J. Agr. Food Chem., vol. 20(3):718-721, 1972, Distribution of Phytate and Nutritionally Important Elements among the Morphological Components of Cereal Grains	
		Z. MROZ ET AL., J. Animal Science, vol. 72:126-132, 1994, Apparent Digestibility and Retention of Nutrients Bound to Phytate Complexes as Influenced by Microbial Phytase and Feeding Regimen in Pigs	
		M. R. SPIVEY FOX ET AL., In Nutritional Toxicology, vol. 3, Academic Press, San Diego (1989) pp. 59-96, Antinutritive Effects of Phytate and Other Phosphorylated Derivatives	
		VICTOR RABOY, Inositol Metabolism in Plants, (1990) Wiley-Liss, New York, pp. 55-76, Biochemistry and Genetics of Phytic Acid Synthesis	
		JAN PEN ET AL., Bio/Technology, vol. 11, 7/1993, 811-814, Phytase-containing Transgenic Seeds as a Novel Feed Additive for Improved Phosphorus Utilization	
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 1709203, 10/1/2000, GILLASPY, G. E. ET AL., Plant Inositol Monophosphatase is a Lithium-sensitive Enzyme Encoded by a Multigene Family	
		Glenda E. Gillaspay et al., The Plant Cell, vol. 7:2175-2185, 12/1995, Plant Inositol Monophosphatase is a Lithium-sensitive Enzyme Encoded by a Multigene Family	
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 1709205, 10/1/2000, GILLASPY, G.E. ET AL., Plant Inositol Monophosphatase is a Lithium-sensitive Enzyme Encoded by a Multigene Family	
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 3915048, 12/15/1998, KANEKO, T. ET AL., Sequence Analysis of the Genome of the Unicellular Cyanobacterium Synechocystis sp. strain PCC6803. Sequence Determination of the Entire Genome and Assignment of Potential Protein-Coding Regions	

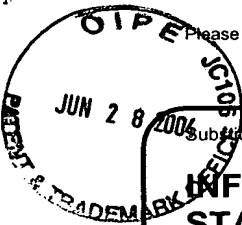
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		TAKAKAZU KANEKO ET AL., DNA Res., vol. 3:109-136, 1996, Sequence Analysis of the Genome of the Unicellular Cyanobacterium Synechocystis sp. Strain PCC6803. II. Sequence Determination of the Entire Genome and Assignment of Potential Protein-coding Regions	
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 1652942, 2/7/1999, KANEKO, T. ET AL., Sequence Analysis of the Genome of the Unicellular Cyanobacterium Synechocystis sp. Strain PCC6803. II. Sequence Determination of the Entire Genome and Assignment of Potential Protein-coding Regions	

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